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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,801	05/28/2004	Caroline Desponts	USF-212XZ1T	2999
23557 7590 04/28/2009 SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION PO Box 142950 GAINESVILLE, FL 32614			EXAMINER	
			ZARA, JANE J	
			ART UNIT	PAPER NUMBER
			1635	
			MAIL DATE	DELIVERY MODE
			04/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/709,801	DESPONTS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jane Zara	1635				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 23 Fe	bruary 2009.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
3) Since this application is in condition for allowan	,—					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
·	og in the application					
4) Claim(s) 1.18-20,22,24,25 and 33 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	, d					
6) Claim(s) <u>1,18-20,22,24,25 and 33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:		(4) 51 (1).				
1. ☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No				
	• • • • • • • • • • • • • • • • • • • •					
	_ , , , , , , , , , , , , , , , , , , ,					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🔯 Information Disclosure Statement(s) (PTO/SB/08) 5) 🔲 Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>2-23-09</u> . 6) Other:						

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DETAILED ACTION

This Office action is in response to the communication filed 2-23-09.

Claims 1, 18-20, 22, 24, 25 and 33 are pending in the instant application.

Response to Arguments and Amendments

Withdrawn Rejections

Any rejections not repeated in this Office action are hereby withdrawn.

Maintained Rejections

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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Claim 1, 18-20, 22, 24, 25 and 33 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 38-44, 74-76, 90, 94 of copending Application No. 09/955,174 in view of Fire et al (USPN 6,506,559) and Patchen et al (USPN 6,117,850) insofar as the claims are drawn to methods of increasing the number of hematopoietic stem cells in a subject comprising the administration of RNAi which specifically targets and inhibits the expression of SHIP, and further comprising harvesting the transfected stem cells using leukopheresis.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Copending Application No. 09/955,174, claims 38-44, 74-76, 90, 94, claims methods for reducing SHIP-1 function in hematopoiteic cells comprising administering an efficacious amount of RNA specific for SHIP-1 mRNA present in hematopoietic cells. Copending Application No. 09/955,174 does not explicitly disclose the use of RNAi molecules for inhibiting the target SHIP gene.

Fire et al (USPN 6,506,559) teach the use of RNAi molecules in targeting and inhibiting the expression of target genes of known sequence. Fire also teaches the advantages of using RNAi molecules for target gene inhibition compared to other inhibitory oligonucleotides, including antisense and ribozymes (see esp. col. 1-7, claims 1-3).

Patchen et al (USPN 6,117,850) teach the routine use of leukophoresis for isolating and harvesting transfected cell populations from a patient (see esp. example 8).

It would have been obvious to combine the teachings of Fire and Patchen to render the instant claims obvious in view of claims 38-44, 74-76, 90, 94 of the copending Application No. 09/955,174 because RNAi were well known in the art to provide inhibition of known target genes as instantly claimed, and the use of leukophoresis to harvest transfected cells in a subject were well known in the art, as taught previously by Patchen et al. One of ordinary skill in the art would have been motivated to use RNAi molecules for target gene inhibition because RNAi molecules were well known to provide increased inhibition compared to other inhibitory oligonucleotides, as taught previously by Fire. One of ordinary skill in the art would have reasonably expected that the RNAi inhibition would provide for effective SHIP inhibition and leukophoresis would provide for harvesting of the transfected hematopoietic cells from a patient.

This is a provisional obviousness-type double patenting rejection.

No arguments were made addressing this rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. ' 1.6(d)). The official fax telephone number for the Group is 571-273-8300. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE CO PIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Zara whose telephone number is (571) 272-0765. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Douglas Schultz, can be reached on (571) 272-0763. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Zara 4-24-09

/Jane Zara/

Primary Examiner, Art Unit 1635